

CLAIMS

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1. Cooling element provided with louvers to be used in a heat exchanger under the influence of passing cooling medium used for cooling another medium
5 flowing inside a circulating element whereto the cooling element is bond by a contact area on one edge, and the louvers form an angle with the surface of the cooling element, **characterised** in that the cooling element (1,11,21,32) is positioned so that the cooling element (1,11,21,32) forms an substantially equal angle (B) to the longitudinal direction of the circulating element (2,14,23,31) as
10 the louvers (4,12,25,33) form to the surface (C) of the cooling element (1,11,21,32).
2. Cooling element according to the claim 1, **characterised** in that the angle of the cooling element (1,11,21,32) to the longitudinal direction of the circulating
15 element (2,14,23,31) is in the range of 20 to 45 degrees.
3. Cooling element according to the claim 1 or 2, **characterised** in that the cooling element (1,11,21,32) is positioned to the contact area with the circulating element (2,14,23,31) so that the contact area with the circulating element
20 (2,14,23,31) forms a shape of a straight line on its substantially whole length.
4. Cooling element according to the claim 1 or 2, **characterised** in that the cooling element (1,11,21,32) is positioned so that the contact area with the circulating element (2,14,23,31) forms a shape of a fraction line so that each
25 part of the fraction line forms an substantially equal angle with the longitudinal direction of the circulating element (2,14,23,31).
5. Cooling element according to any of the preceding claims, **characterised** in that the cooling element (1,11,21,32) is a part of a corrugated strip which has a
30 contact area alternatively with two circulating elements (2,14,23,31).

6. Cooling element according to any of the preceding claims, **characterised** in that the cooling element (1,11,21,32) is made of copper.

5 7. Cooling element according to any of the preceding claims 1 to 5, **characterised** in that the cooling element (1,11,21,32) is made of copper-based alloy.

8. Cooling element according to any of the preceding claims 1 to 5, **characterised** in that the cooling element (1,11,21,32) is made of aluminium.

10 9. Cooling element according to any of the preceding claims 1 to 5, **characterised** in that the cooling element (1,11,21,32) is made of aluminium-based alloy.

10. Cooling element according to any of the preceding claims, **characterised** in that the cooling element (1,11,21,32) is a fin.

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